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APPLICATION NO.	FILING DA	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,710	10/728,710 12/04/2003		Yoshie Iwakura	60419 (48882)	9935
21874	7590 12	/15/2004		EXAMINER	
EDWARDS	& ANGELL, I	CRENSHAW, MARVIN P			
P.O. BOX 558	374				
BOSTON, M.	A 02205	ART UNIT	PAPER NUMBER		
				2054	

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)				
	Office Action Commence	10/728,7	'10	IWAKURA ET AL.				
	Office Action Summary	Examine	r	Art Unit				
			. Crenshaw	2854				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE N - Exten after S - If the - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT sions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory e to reply within the set or extended period for reply will, by eply received by the Office later than three months after the d patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no even on. s, a reply within the state period will apply and vertatute, cause the apply and vertatute.	vent, however, may a reply be tin tutory minimum of thirty (30) day vill expire SIX (6) MONTHS from olication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. 8 133)				
Status								
1)🖂	Responsive to communication(s) filed on	04 December 2	2003					
	This action is FINAL . 2b)⊠ This action is non-final.							
, <u> </u>								
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	on of Claims							
4)⊠	Claim(s) <u>1 - 23</u> is/are pending in the appli	ication		ı				
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	☐ Claim(s) <u>1 and 18 - 23</u> is/are rejected. ☐ Claim(s) <u>2 - 17</u> is/are objected to.							
	Claim(s) are subject to restriction and/or election requirement.							
Application	on Papers							
9) 🗌 7	The specification is objected to by the Exa	miner.						
	10)⊠ The drawing(s) filed on <u>12/04/2033</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119							
12)× A	Acknowledgment is made of a claim for fo	reian priority un	der 35 U.S.C. & 110(a)	h(d) or (f)				
	12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
,-	1.⊠ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment('s)							
1) Notice	of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) Unotice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
3) 🔼 Inform Paper	ation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date <u>12/04/2003</u> .	5) Notice of Informal Pa	atent Application (PTO-152)					

DETAILED ACTION

Claims 11 and 14 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claims cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 18 – 23 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: method steps for a paper transport apparatus for transporting one or more sheets of paper.

Claim 19 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. What applicant has claimed with respect to applying a voltage to the image carrier or carriers and the pressure rollers is not understandable to the examiner.

Allowable Subject Matter

Claims 2 – 10, 12, 13 and 15 - 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance:

With respect to claim 2, the prior art does not teach or render obvious the total combination as claimed including a paper transport apparatus wherein at least one of the pressure roller pair or pairs comprises one or more drive rollers and one or more idler rollers at least one of the drive roller or rollers comprises at least one metal roller and at least one of the idler roller or rollers comprises at least one electrically conductive elastic roller.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsumura.

With respect to claim 1 and 18, Matsumura teaches a paper transport apparatus and method (Fig. 2) comprising one or more image carriers carrying toner (13) one or more transfer means (57), rotating and coming in contact with at least one of the image carrier or carriers, for causing one or more toner images formed on at least one of the

image carrier or carriers to be electrostatically relocated onto one or more sheets of paper and one or more paper transport means (63) disposed upstream in one or more transport directions from at least one of the transfer means and comprising one or more pairs of pressure rollers (See Fig. 2, rollers arranged in 64) holding one or more lead edge portion or portions of at least one of the sheet or sheets of paper in one or more nips formed there between and rotating so as to cause transport of same, at least one of the paper transport means (Fig. 2, 64) being disposed to the side, on which at least one of the image carrier or carriers is present of a plane more or less tangent (Fig. 2) to at least one nip formed between at least one of the image carrier or carriers and at least one of the transfer means and at least one of the sheet or sheets of paper being transported from at least one of the paper transport means toward at least one of the transfer means.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 19 - 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumura in view of Toyama et al.

Matsumura teaches all that is claimed, as discussed in the above rejection of claims 1 and 18, except a paper transport method wherein one or more voltages is applied to the image carrier or carriers and the one or more pressure rollers.

Toyama et al. teaches a paper transport method (Fig. 1) wherein as a result of application of one or more voltages (See col. 11, lines 20 - 41), timed in prescribed fashion and opposite in polarity to at least one electrostatic potential of at least one of the image carrier or carriers, to one or more pressure rollers (See col. 11, lines 20 - 41), of one or more paper transport means disposed upstream in one or more transport directions from at least one of the image forming means, one or more voltages (See col. 26, lines 4 - 15) is or are applied to only lead edge portion or portions of at least one of the transported sheet or sheets of paper in transporting same to at least one of the image forming means, at least one length of at least one of the paper lead edge portion or portions at which voltage is applied is not so long as to substantially affect information contained in at least one image formed on at least one of the image carrier or carriers (See col. 11, 43 - 54), wherein at least one of the applied voltages is varied in accordance with difference in thickness attributable to type of transported paper, being increased with increasing thickness of the paper (See col. 11, lines 20 -30), wherein at least one absolute value of at least one maximum applied voltage is less than at least one absolute value of at least one surface potential to which at least one of the image carrier or carriers is charged (See col. 29, lines 1 - 16) and at least one absolute value of at least one maximum applied voltage is approximately equal to at least one absolute value of at least one development bias voltage which when applied

to at least one of the transfer means would cause at least one latent electrostatic image on at least one of the image carrier or carriers to become manifest (See col. 25, lines 11 - 30).

It would have been obvious to one of ordinary skill in the art to modify Matsumura to have a paper transport method wherein one or more voltages is applied to the image carrier or carriers and the one or more pressure rollers as taught by Toyama et al. so as to provide an efficient means for applying a charge to the paper while it is being transported through the printer so the toner particles will adhere to the paper and the image will not be distorted.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marvin P. Crenshaw whose telephone number is (571) 272-2158. The examiner can normally be reached on Monday - Thursday 7:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on (571) 272-2168. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/728,710

Art Unit: 2854

Page 7

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MPC

December 13, 2004

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